

Title (en)  
SPOOL HAVING AN EXTERNAL HOOK FOR WINDING TAPES AND THE LIKE

Publication  
**EP 0001583 B1 19800820 (DE)**

Application  
**EP 78101044 A 19780930**

Priority  
DE 2745981 A 19771013

Abstract (en)  
[origin: US4181271A] The invention relates to a spool for winding elastic material in the form of tape, in particular film, with external hooks comprising a cylindrical spool core with an opening on and in which the hooks are formed and preferably also two flange discs and the film having perforations for its attachment to the hooks in the spool.

IPC 1-7  
**G03B 17/26**; B65H 19/28; B65H 75/28; G11B 23/10

IPC 8 full level  
**B65H 19/28** (2006.01); **G03B 17/26** (2006.01); **G11B 15/67** (2006.01); **B65H 75/28** (2006.01)

CPC (source: EP US)  
**B65H 19/28** (2013.01 - EP US); **G03B 17/26** (2013.01 - EP US); **G11B 15/674** (2013.01 - EP US); **G03B 2217/261** (2013.01 - EP US)

Designated contracting state (EPC)  
BE CH DE FR GB

DOCDB simple family (publication)  
**EP 0001583 A1 19790502**; **EP 0001583 B1 19800820**; DE 2745981 A1 19790419; DE 2860243 D1 19801204; IT 7851454 A0 19781011; JP S5465263 A 19790525; US 4181271 A 19800101

DOCDB simple family (application)  
**EP 78101044 A 19780930**; DE 2745981 A 19771013; DE 2860243 T 19780930; IT 5145478 A 19781011; JP 12470378 A 19781012; US 94939878 A 19781010